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TECHNOLOGY CENTER 2839

FACSIMILE COVER SHEETDATE: February 4, 2002OUR REF.: MTS-3181USTIME: 4:38 PMYOUR REF.: Serial No.: 09/471,981

FROM:	Allan Ratner/Jack J. Jankovitz
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TITLE OF DOCUMENT:	

Total Number of Pages: 26 (including this form)

COMMENTS

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In re application of: E. Igaki et al.
 Serial No.: 09/471,981
 Filed: December 23, 1999
 For: INK-JET RECORDING HEAD

ASSISTANT COMMISSIONER FOR PATENTS
 Washington, D.C. 20231

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Sir:
 Transmitted herewith is an amendment in the above-identified application

Small entity status of this application under 37 CFR 1.9 and 1.27 has been established by a verified statement previously submitted.
 A verified statement to establish small entity status under 37 CFR 1.9 and 1.27 is enclosed.
 No additional fee is required.

The fee has been calculated as shown below:

	(Col. 1)	(Col. 2)	(Col. 3)
	Claims Remaining After Amendment	Highest Number Previously Paid for	Present Extra
Total	* 47	Minus	** 140
<input type="checkbox"/> First Presentation of Multiple Dependent Claim			

SMALL ENTITY		OTHER THAN A SMALL ENTITY	
OR	Rate	OR	Rate
	\$ 9		\$ 18
	\$ 42		\$ 84
	+\$140		+\$280
	TOTAL ADDIT. FEE		TOTAL
	\$		\$84.00

- * If the entry in Col. 1 is less than the entry in Col. 2, write "0" in Col. 3.
- ** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, write "20" in this space.
- *** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, write "3" in this space.

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found from the equivalent box in Col. 1 of a prior amendment or the number of claims originally filed.

Please charge my Deposit Account No. 18-0350 the amount of \$84.00. A duplicate copy of this sheet is enclosed.

A check in the amount of \$ is enclosed.

The Assistant Commissioner for Patents is hereby authorized to charge payment of the following fees associated with this communication or credit any overpayment to Deposit Account No. 18-0350. A duplicate copy of this sheet is enclosed.

Any filing fees under 37 CFR 1.16 for the presentation of extra claims.

Any patent application processing fees under 37 CFR 1.17.

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Respectfully submitted,

 Allan Ratner, Reg. No. 19,717
 Jack J. Jankevitz, Reg. No. 42,690

CERTIFICATE OF MAILING (37 CFR 1.8a)

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being facsimile transmitted to the United States Patent and Trademark Office on the date shown below.

Date: February 4, 2002

MTS-3181US

PATENT

C. Wills

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	E. Igaki et al.	: Art Unit:	2853
Serial No.:	09/471,981	: Examiner:	R. Loper
Filed:	December 23, 1999	:	
For:	INK-JET RECORDING HEAD	:	

**RESPONSE TO
OFFICE ACTION DATED AUGUST 6, 2001**

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Assistant Commissioner for Patents
Washington, D.C. 20231

TECHNOLOGY CENTER 2800

SIR:

Responsive to the Official Action dated August 6, 2001, please amend the above-identified application as follows

IN THE DRAWINGS:

Subject to approval by the Examiner in charge of the above-identified application, please amend Figures 3, 10, 11 and 12 as indicated in red on the enclosed marked-up copies of Figures 3, 10, 11 and 12.

IN THE SPECIFICATION:

Please replace the paragraph beginning at page 32, line 10:

C 1

This can be achieved if $X \leq P/m$, wherein X represents a deviation in the main scanning direction of one nozzle in an arbitrary nozzle array from another nozzle in a nozzle array nearest in the main scanning direction, m is an integer and P represents a pitch between the adjacent nozzles in one nozzle array. In the ink-jet recording head configured in this way, it is possible to align the nozzles projected in the sub-scanning direction at the highest aligning density.